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Identification and Mapping of Land Use Classes in the Kansas City Area by Machine-Processing of ERTS-1 Data

Discipline Category: 2A Land Use Classification

ERTS Frame Number: E 1021-16333, obtained on 13 August 1972

72062000 Run Number:

Classification Serial Number: 0423349701

Kansas City, Missouri and Kansas; metropolitan-Subframe Analyzed:

suburban, and surrounding agricultural areas.

NAS5-21785 ERTS Contract Number:

Four bands (4,5,6,7) of digitized, multispectral data were analyzed by computer processing to obtain a land use classification of the Kansas City subframe. Initially, the nonsupervised (cluster) method of classification was used. The 12-cluster, spectral map of the area was used as the base map for choosing training samples by hand for land use classes. Training samples were obtained for 1) commercial industrial areas, 2) older housing, 3) single-family residential, 4) wooded residential, 5) agricultural (lighter reflectance), 6) agricultural (darker reflectance), 7) water (from reservoirs), and 8) water (from rivers). Classification results were satisfactory, but the following problems were encountered: 1) numerous, small rural areas were misclassified as single-family residential, and 2) much of the Kansas River near its confluence with the Missouri was misclassified as commercial/industrial.

N73-23439

IDENTIFICATION AND MAPPING OF LAND USE CLASSES IN THE KANSAS CITY AREA BY MACHINE PROCESSING OF ERTS-1 DATA (Purdue Univ.)

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CSCL 08B G3/13

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